



UNICORN COMPUTER CORP.



ENDAT-D2512S

Q28-D2512S-D

Specifications

Board Dimension:

Mini-ITX form factor, 170 x 170 mm (6.69" x 6.69")

Intel® Atom Cedarview CPU:

D2550 (dual core 1.86GHz; 10Watt) with fan (fanless with Q28)

Chipset:

Intel NM10

BIOS:

Award Flash BIOS

System Memory:

One 204-Pin DDR3 socket supports Single-Channel DDR3 800/1066 SODIMM up to 4 GB memory

Serial ATA (SATA) interface:

2 ports 300MHz Serial ATA Device

Display Controller:

Chipset: Intel® GMA 3650 engine

• Display Type:

- CRT
- DVI (optional)
- LVDS Dual channel 18/24 bit
- Dual view: CRT + DVI(optional) or CRT + LVDS

High Speed Multi I/O:

- **Chipset:** 1 x Winbond W83627UHG, 1 x Winbond W83627HG
- **Serial Ports:** 4 ports RS-232 ports (1 port w/ box header) (Optional: 422/485 port selectable on COM1) All 4 serial ports support 16C550 UART, 16 byte FIFO, and with +5V, +12V power selector.
- **Parallel Port:** Bi-directional parallel port supports SPP/EPP/ECP mode
- **USB Ports:** 4 ports with 2.0 compliant (4 ports w/ pin header. One of 4 ports is share with Mini-PCIe socket)
- **Keyboard / Mouse Connectors:** Support PS/2 keyboard and mouse with onboard connector and pin header
- **Watch Dog Timer:** On-chip build in, programmable 1~255 seconds / minutes

Digital I/O:

4 bit input and 4 bit output bi-directional I/O ports (standard board support)

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Network Interface:

- 2x Intel 82583V PCIE Gigabit Ethernet Controller (1x D-version)
- 10/100/1000 Base-TX, Full duplex with RJ-45 connector
- Compliant with IEEE 802.3X

Audio Controller:

- **On-board HD Audio with 1.2W amplifier**
- **Phone-jack:** Speaker-Out
- **Pin header:** Speaker-Out, MIC-In, CD In and Line-In

Power management:

ACPI Mode

Real Time Clock:

On chip RTC with external Li Battery back up

Expansion Slot:

- One PICMG 1.0 compliant PCI slot supports up to 2 PCI expansions
- Mini-PCIe x1 Socket (It's shared with one USB port)

Power Types:

DC12V Input

Operating Temperature: 0 ~ 60°C

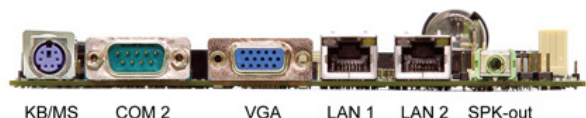
Ordering Information:

Features for ENDAT-D2512

ENDAT-D2512S	w/ CRT + LVDS
ENDAT-D2512S-D	w/ CRT, 1x DVI, 1x VGA, 1x PS2, 1x LAN, 1x COM, 2x USB

Not all I/O available with D2512S-D in Q28-enclosure

Rear window:



Spot light:

- Intel® Atom™ Cedarview Dual Core CPU
- LVDS Dual channel
- Dual Display: VGA+ LVDS or VGA+ DVI (optional)
- Two Intel Giga LAN onboard